Computing & ICT Year 7 – 2021/2022

Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	W/C 24/08	W/C 31/08	W/C 07/09	W/C 14/09	W/C 21/09	W/C 28/09	W/C 05/10	W/C 12/10	W/C 02/11	W/C 9/11	W/C 16/11	W/C 23/11	W/C 30/11
	Term 1	Bank Holiday (31/08)	**E-safety** Using email	**E-safety** Digital Footprint	**E-safety** Cyber bullying	**E-safety** Creating Comic Strips	Revision E-Safety		Term 2 Data Input 1 (04/11)	Data Day (12/11) Planning Day (13/11)	Share Results	**Algorithms** flowchart shapes - applying to own	**Algorithms** Adapting flowchart for magazine
	Student Induction		**E-safety** Advantages & Disadvantages of email	**E-safety** Scams & Schemes	**E-safety** Drafting & redrafting comic strip	**E-safety** Creating Comic Strips Revision	Assessment E-Safety	DIRT E-Safety	**Algorithms** Intro – Jam Sandwich	**Algorithms** Writing simple algorithms	**Algorithms** Flowchart shapes to premade algorithms	**Algorithms** Adapting flowchart for magazine	**Algorithms** Adapting flowchart for magazine
Cycle 2	W/C 07/12	W/C 14/12	W/C 04/01	W/C 11/01	W/C 18/01	W/C 25/01	W/C 01/02	W/C 08/02	W/C 22/02	W/C 01/03	W/C 08/03	W/C 15/03	W/C 22/03
	Algorithms Consolidation	Y11 Mock Examinations **Comp. Systems** Intro	Term 3 Y11 Mock Examinations **Comp. Systems** Storage Devices	**Comp. Systems** Input Output & Peripherals	Data Input Y11 (20/01) **Comp. Systems** Specific Input and Output Peripherals	**Representing Images** Introduction to representing images	**Representing Images** Image Size and File Types	Revision Algorithms, Comp Systems Representing Images so far	Term 4 Data Input 2 (24/02) **Representing Images** Colour Images	Data Day (4/3) Planning Day (5/3) **HTML** HTML Tags	Share Results **HTML** Inserting Images	**HTML** Creating Hyperlinks	**HTML** Make a webpage
	Algorithms Magazines Presentations	Y11 Examinations **Comp. Systems** Hardware	Y11 Examinations **Comp. Systems** Comparing storage devices	**Comp. Systems** Specific Input and Output Peripherals	**Comp. Systems** Complete Computer	**Representing Images** Metadata and Colour Depth	Revision Algorithms, Comp Systems Representing Images so far	Assessment Algorithms, Comp Systems, Representing Images	**HTML** Introduction to Web	Review **HTML** More HTML Tags	**HTML** Inserting Images	**HTML** Make a webpage	**HTML** Make a webpage
Cycle 3		W/C 19/04	W/C 26/04	W/C 03/05	W/C 10/05	W/C 17/05	W/C 24/05	W/C 07/06	W/C 14/06	W/C 21/06	W/C 28/06	W/C 05/07	W/C 12/07
	Term 5	**HTML** Make a webpage	**HTML** Evaluation of Webpage	Bank Holiday (03/05)		GCSE Examinations	GCSE Examinations Term 6	GCSE Examinations	GCSE Examinations	GCSE Examinations	Data Input 3 (30/07)	Share Results	Data Day (13/07) Planning Day (14/07)
		HTML Make a webpage	**Fireworks** Introduction to interface and layers	**Fireworks** Vector Images	**Fireworks** Bitmap Tools	**Fireworks** Bitmap tools	**Fireworks** Bitmap & Vector	**Revision** C1, C2, C3	**Spreadsheets** Advantages/Dis advantages	**Spreadsheets** Formulae vs functions	**Spreadsheets** Graphs and Charts	**Spreadsheets** Using Class Data	**Spreadsheets** Consolidation
		HTML Make a webpage	**Fireworks** Vector tools	**Fireworks** Bitmap Tools	**Fireworks** Bitmap Tools	**Fireworks** Bitmap and Vector	**Revision** C1, C2 & C3	Examinations Assessment Exam	Examinations **Spreadsheets** Formatting	Examinations **Spreadsheets** Graphs & Charts	**Spreadsheets** Using Class data	**Spreadsheets** Consolidation	Review

Computing & ICT / Y8 – 2021/2022

Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	W/C 24/08	W/C 31/08	W/C 07/09	W/C 14/09	W/C 21/09	W/C 28/09	W/C 05/10	W/C 12/10	W/C 02/11	W/C 9/11	W/C 16/11	W/C 23/11	W/C 30/11
	Term 1	Bank Holiday (31/08)	**O.S & Security** Intro	**O.S & Security** GUI vs CLI	**O.S & Security** Computer Crime	**O.S & Security** Threats: policies & Social engineering	**O.S & Security** Revision	**O.S & Security Leaflet**	Term 2 Data Input 1 (04/11)	Data Day (12/11) Planning Day (13/11)	Share Results **Binary** Denary – binary conversion	**Binary** Binary – denary conversion	**Binary** Addition
	Student Induction	**Student Induction**	**O.S & Security** OS Functions	**O.S & Security** GUI vs CLI: Publisher vs Fireworks	**O.S & Security** Threats: brute force, DOS	**O.S & Security** Prevention: strategies	Assessment **O.S & Security** Leaflet	DIRT **O.S & Security** Leaflet	**O.S & Security** Leaflet	**Binary** Why binary, purpose. examples	Review **O.S** Relationship CPU, RAM & HDD	**Binary** Addition	**Binary** Revision
Cycle 2	W/C 07/12	W/C 14/12	W/C 04/01	W/C 11/01	W/C 18/01	W/C 25/01	W/C 01/02	W/C 08/02	W/C 22/02	W/C 01/03	W/C 08/03	W/C 15/03	W/C 22/03
	Binary End of topic test	Y11 Mock Examinations **Python** Intro to programming	Term 3 Y11 Mock Examinations **Python** Sequencing & Selection	**Python** Sequencing & Selection	Data Input Y11 (20/01) **Python** Sequencing & Selection	**Python** Sequencing & Selection	**Python** Sequencing & Selection	Revision **Binary, O.S Security & Python**	Term 4 Data Input 2 (24/02) **Dreamweaver** Intro & Basics	Data Day (4/3) Planning Day (5/3) **Dreamweaver Templates**	Share Results **Dreamweaver** Editable region	**Dreamweaver** Hyperlinks & video	**Dreamweaver** Testing & Improvements
	Binary DIRT	Y11 Examinations **Python** Sequencing & Selection	Y11 Examinations **Python** Sequencing & Selection	**Python** Sequencing & Selection	**Python** Sequencing & Selection	**Python** Sequencing & Selection	Revision **Binary, O.S Security & Python**	Assessment	**Dreamweaver** Banner & Buttons	Review **Dreamweaver** Editable region	**Dreamweaver** Inserting tables	**Dreamweaver** Testing & Improvements	Revision Cycle 1 & Cycle 2 content
Cycle 3	W/C 12/04	W/C 19/04	W/C 26/04	W/C 03/05	W/C 10/05	W/C 17/05	W/C 24/05	W/C 07/06	W/C 14/06	W/C 21/06	W/C 28/06	W/C 05/07	W/C 12/07
	Term 5 **Construct 2** Intro to gaming genres &	**Construct 2** layers & Projects	**Construct 2** Shooter Tutorials 1 - 2	Bank Holiday (03/05) **Construct 2** Shooter	**Construct 2** Jumper Tutorials	GCSE Examinations **Construct 2** Jumper	GCSE Examinations Term 6 **Jumper**	GCSE Examinations Revision	GCSE Examinations **CS Stretch** Research	GCSE Examinations **CS Stretch** Project work	Data Input 3 (30/07) **CS Stretch** Project work	Share Results **CS Stretch** Project work	Data Day (13/07) Planning Day (14/07)
	Construct 2 Intro to assets & UI	**Construct 2** Shooter Tutorials 1 - 2	**Construct 2** Shooter Tutorials 3 - 4	**Construct 2** Shooter Tutorials	**Construct 2** Jumper Tutorials	**Construct 2** Jumper Tutorials	**Revision**	Examinations Assessment **CS Stretch** Intro	Examinations **CS Stretch** Research	Examinations **CS Stretch** Project work	**CS Stretch** Project work	**CS Stretch** Project work	Review **CS** Exhibition

Year 9/Computing – 2021/2022

Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	W/C 24/08	W/C 31/08	W/C 07/09	W/C 14/09	W/C 21/09	W/C 28/09	W/C 05/10	W/C 12/10	W/C 02/11	W/C 9/11	W/C 16/11	W/C 23/11	W/C 30/11
	Term 1	Bank Holiday (31/08)	Introduction to GCSE Specification	01: Computer Systems Unit 1. Systems Architecture Fetch Execute Cycle	01: Computer Systems Unit 1. Systems Architecture Clock Speed	01: Computer Systems Unit 1. Systems Architecture Difference and Purpose	01: Computer Systems Unit 1. Systems Architecture Secondary Storage Optical Magnetic Solid State	01: Computer Systems Unit 1. Systems Architecture Capacity	Term 2 Data Input 1 (04/11) Unit 2: Wired and Wireless Networks Types of Networks LAN WAN	Data Day (12/11) Planning Day (13/11) Unit 2: Wired and Wireless Networks Client server and peer to peer network	Share Results Unit 2: Wired and Wireless Networks Internet DNS, Cloud computing, web servers	Unit 2: Wired and Wireless Networks Network Security Threats to computer systems and networks	Unit 2: Wired and Wireless Networks The concept of layers and protocols recap
	Student Induction	Student Induction	01: Computer Systems Unit 1. Systems Architecture Purpose of CPU	01: Computer Systems Unit 1. Systems Architecture CPU Performance	01: Computer Systems Unit 1. Systems Architecture Number of cores	01: Computer Systems Unit 1. Systems Architecture Memory RAM and ROM Flash and Virtual	Assessment Unit 1. Systems Architecture Secondary Storage Optical Magnetic Solid State Systems Architecture	DIRT Consolidation	Unit 2: Wired and Wireless Networks Factors affecting performance of networks	Unit 2: Wired and Wireless Networks Network Hardware Wireless access points, routers, switches, NIC. Transmission media	Unit 2: Wired and Wireless Networks Network topologies	Unit 2: Wired and Wireless Networks Protocols and Layers Packet Switching	Unit 2: Wired and Wireless Networks Consolidation End of Unit recap
Cycle 2	W/C 07/12	W/C 14/12	W/C 04/01	W/C 11/01	W/C 18/01	W/C 25/01	W/C 01/02	W/C 08/02	W/C 22/02	W/C 01/03	W/C 08/03	W/C 15/03	W/C 22/03
	01: Computer Systems Unit 3. Systems Software and Security The purpose and functionality of operating systems	Y11 Mock Examinations 01: Computer Systems Unit 3. Systems Software and Security Utility Systems software, data compression, defragmentation & back up	Term 3 Y11 Mock Examinations 01: Computer Systems Formative Assessment Recap	Unit 4: Ethical Legal Cultural Legal, Environmental and Privacy	Data Input Y11 (20/01) Unit 4: Ethical Legal Cultural End of Unit Assessment	02: Computational Thinking, Algorithms Unit 5: Computational Thinking Intro to Computational Thinking	02: Computational Thinking, Algorithms Unit 5: Computational Thinking Searching Algorithms	02: Computational Thinking, Algorithms Unit 5: Computational Thinking Sorting Algorithms	Term 4 Data Input 2 (24/02) 02: Computational Thinking, Algorithms Unit 5: Computational Thinking Flowcharts	Data Day (4/3) Planning Day (5/3) 02: Computational Thinking, Algorithms Unit 5: Computational Thinking Psuedocode & Flowcharts	Share Results 02: Computational Thinking, Algorithms Unit 5: Computational Thinking Psuedocode & Flowcharts	02: Computational Thinking, Algorithms Unit 5: Computational Thinking Algorithms	02: Computational Thinking, Algorithms Unit 8: Data Representations Hexadecimal/Binary/Denary

	01: Computer Systems **Unit 3. Systems Software and Security** File Management and User management	**Y11 Examinations** **01: Computer Systems** **Unit 3. Systems Software and Security** Consolidation	**Y11 Examinations** **Unit 4: Ethical Legal Cultural** **Ethical and Cultural**	**Unit 4: Ethical Legal Cultural** **Exploring Stakeholders**	**Unit 4: Ethical Legal Cultural** **DIRT**	**02: Computational Thinking, Algorithms** **Unit 5: Computational Thinking** Searching Algorithms	**Revision** **02: Computational Thinking, Algorithms** **Unit 5: Computational Thinking** Sorting Algorithms	**Assessment** **02: Computational Thinking, Algorithms** **Unit 5: Computational Thinking** Consolidation	**02: Computational Thinking, Algorithms** **Unit 5: Computational Thinking** Pseudocode	**Review** **02: Computational Thinking, Algorithms** **Unit 5: Computational Thinking** Psuedocode & Flowcharts	**02: Computational Thinking, Algorithms** **Unit 5: Computational Thinking** Revision	**02: Computational Thinking, Algorithms** **Unit 5: Computational Thinking** Revision	**Unit 8: Data Representations** Hexadecimal/Binary/Denary
Cycle 3	**W/C 12/04**	**W/C 19/04**	**W/C 26/04**	**W/C 03/05**	**W/C 10/05**	**W/C 17/05**	**W/C 24/05**	**W/C 07/06**	**W/C 14/06**	**W/C 21/06**	**W/C 28/06**	**W/C 05/07**	**W/C 12/07**
	Term 5 **Unit 8: Data Representations** Hexadecimal/Binary/Denary	**Unit 8: Data Representations** Image	**Unit 8: Data Representations** Compression	**Bank Holiday (03/05)** **Unit 8: Data Representations** Compression	**Unit 6: Programming Fundamentals** Variables, constants, operators, inputs and outputs	**GCSE Examinations** **Unit 6: Programming Fundamentals** Basic programing constructs selection	**GCSE Examinations** **Term 6** **Unit 6: Programming Fundamentals** Arithmetic operators and Boolean operators	**GCSE Examinations** **Revision**	**GCSE Examinations** **Unit 6: Programming Fundamentals** Data Types	**GCSE Examinations** **Unit 6: Programming Fundamentals** String manipulation, file handling operations	**Data Input 3 (30/07)** **Unit 6: Programming Fundamentals** Arrays	**Share Results** **Unit 6: Programming Fundamentals** Boolean logic Truth tables	**Data Day (13/07)** **Planning Day (14/07)** **Unit 6: Programming Fundamentals** Languages High-level and low-level
	Unit 8: Data Representations ASCII and Unicode	**Unit 8: Data Representations** Sound	**Unit 8: Data Representations** Compression	**Unit 6: Programming Fundamentals** Variables, constants, operators, inputs and outputs	**Unit 6: Programming Fundamentals** Basic programing constructs sequence	**Unit 6: Programming Fundamentals** Basic programing constructs iteration	**Revision**	**Examinations** **Assessment**	**Examinations** **Unit 6: Programming Fundamentals** Data Types	**Examinations** **Unit 6: Programming Fundamentals** SQL to search for data	**Unit 6: Programming Fundamentals** Random number generation Structured codes	**Unit 6: Programming Fundamentals** Testing Syntax and logic errors	**Review** **Unit 6: Programming Fundamentals** IDE Editors, diagnostics, translators

Computer Science Year 10 2021-22

Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	W/C 24/08	W/C 31/08	W/C 07/09	W/C 14/09	W/C 21/09	W/C 28/09	W/C 05/10	W/C 12/10	W/C 02/11	W/C 9/11	W/C 16/11	W/C 23/11	W/C 30/11
	Term 1	Bank Holiday (31/08)	01: Computer Systems Unit 1. Systems Architecture Fetch Execute Cycle continued	01: Computer Systems Unit 1. Systems Architecture Clock Speed	01: Computer Systems Unit 1. Systems Architecture Difference and Purpose	01: Computer Systems Unit 1. Systems Architecture Secondary Storage Optical Magnetic Solid State	01: Computer Systems Unit 1. Systems Architecture Capacity	Assessment	Term 2 Data Input 1 (04/11)	Data Day (12/11) Planning Day (13/11) Unit 2: Wired and Wireless Networks Factors affecting performance of networks	Share Results Unit 2: Wired and Wireless Networks Network Hardware Wireless access points, routers, switches, NIC. Transmission media	Unit 2: Wired and Wireless Networks Network topologies	Unit 2: Wired and Wireless Networks Protocols and Layers Packet Switching
	Student Induction	01: Computer Systems Unit 1. Systems Architecture Fetch Execute Cycle	01: Computer Systems Unit 1. Systems Architecture CPU Performance	01: Computer Systems Unit 1. Systems Architecture Number of cores	01: Computer Systems Unit 1. Systems Architecture Memory RAM and ROM Flash and Virtual	Unit 1. Systems Architecture Secondary Storage Optical Magnetic Solid State	01: Computer Systems Unit 1. Systems Architecture Revision	DIRT Consolidation	Unit 2: Wired and Wireless Networks Types of Networks LAN WAN	Unit 2: Wired and Wireless Networks Client server and peer to peer network	Unit 2: Wired and Wireless Networks Internet DNS, Cloud computing, web servers	Unit 2: Wired and Wireless Networks Network Security Threats to computer systems and networks	Unit 2: Wired and Wireless Networks Consolidation
Cycle 2	W/C 07/12	W/C 14/12	W/C 04/01	W/C 11/01	W/C 18/01	W/C 25/01	W/C 01/02	W/C 08/02	W/C 22/02	W/C 01/03	W/C 08/03	W/C 15/03	W/C 22/03
	Unit 6: Programming Fundamentals Introduction to programming	Y11 Mock Examinations Unit 6: Programming Fundamentals Variables Constants Operators	Term 3 Y11 Mock Examinations Unit 6: Programming Fundamentals Basic programing constructs selection	Unit 6: Programming Fundamentals Arithmetic operators and Boolean operators	Data Input Y11 (20/01) Unit 6: Programming Fundamentals Revision and retrieval practice assessment	Unit 6: Programming Fundamentals SQL to search for data	Unit 6: Programming Fundamentals Random number generation Structured codes	Unit 6: Programming Fundamentals Syntax and logic errors Testing	Term 4 Data Input 2 (24/02) Unit 6: Programming Fundamentals Languages High-level and low-level	Data Day (4/3) Planning Day (5/3)	Share Results		
	Unit 6: Programming Fundamentals Variables Constants Inputs and Outputs	Y11 Examinations Unit 6: Programming Fundamentals Basic programing constructs sequence	Y11 Examinations Unit 6: Programming Fundamentals Basic programing constructs iteration	Unit 6: Programming Fundamentals Data types	Unit 6: Programming Fundamentals String manipulation, file handling operators	Unit 6: Programming Fundamentals Arrays	Revision Unit 6: Programming Fundamentals Boolean logic Truth tables	Assessment	Unit 6: Programming Fundamentals IDE Editors, diagnostics, translators	Review	Unit 8: Representing data Units of Data	Unit 8: Representing data Data Storage Binary to Denary Denary to binary	Unit 8: Representing data Hexadecimal to Binary Binary to Hexadecimal

	W/C 12/04	W/C 19/04	W/C 26/04	W/C 03/05	W/C 10/05	W/C 17/05	W/C 24/05	W/C 07/06	W/C 14/06	W/C 21/06	W/C 28/06	W/C 05/07	W/C 12/07
Cycle 3	**Term 5**			**Bank Holiday (03/05)**		**GCSE Examinations**	**GCSE Examinations** **Term 6**	**GCSE Examinations**	**GCSE Examinations**	**GCSE Examinations**	**Data Input 3 (30/07)**	**Share Results**	**Data Day (13/07)** **Planning Day (14/07)**
	Unit 8: Representing data Binary Shifts Binary Addition	**Unit 8: Representing data** Character Sets ASCII VS Unicode	**Unit 8: Representing data** Images Metadata	**Unit 8: Representing data** Sound and Compression	**Unit 7: Computational Thinking** Principles of computational thinking	**Unit 7: Computational Thinking** Creating algorithms and trace tables	**Revision**	**Examinations** **Assessment**	**Examinations**	**Examinations**	**Unit 7: Computational Thinking** Psuedocode Flowcharts	**Unit 7: Computational Thinking** Psuedocode Flowcharts	**Review**

Digital Information Technology – 2021/2022

Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
L	W/C 24/08	W/C 31/08	W/C 07/09	W/C 14/09	W/C 21/09	W/C 28/09	W/C 05/10	W/C 12/10	W/C 02/11	W/C 9/11	W/C 16/11	W/C 23/11	W/C 30/11
	Term 1	Bank Holiday (31/08)						**Component 3:** **Learning Aim A1** Researching existing products/competition (Lesson 2)	Term 2 Data Input 1 (04/11) **Component 3:** **Learning Aim A2** Ideas Generation (Lesson 5)	Data Day (12/11) Planning Day (13/11) **Component 3:** **Learning Aim A2** Mood boards (Lesson 7)	Share Results **Component 3:** **Learning Aim A2** Generating Ideas and Proposal (Lesson 9)	**Component 3:** **Learning Aim A2** Generating Ideas and Proposal (Lesson 10 &11)	**Component 3:** **Learning Aim B1 Planning** (Lesson 13) Planning materials mini assignment
	Student Induction & collect component 2	**Component 2**: Learning Aim C Review progress and development (Lesson 31 Active Pearson)	**Component 2 Learning Aim C:** Skills Audit and SWOT Analysis Lesson (32)	**Component 2: Learning Aim C:** Start written report on review of game (Summative Assessment)	**Component 2: Learning Aim C:** Continue written report on review of game (Summative Assessment) Lesson 34 & 35	**Component 2:** **Catch up and Review**	Assessment **Component 3:** **Learning Aim A1** Researching and understanding the market (Lesson 2)	DIRT **Component 3:** **Learning Aim A1** Content analysis, order and sequencing (Lesson 4)	**Component 3:** **Learning Aim A2** Themes (Lesson 6)	**Component 3:** **Learning Aim A2** Generating Ideas (Lesson 8)	**Component 3:** **Learning Aim A2** Generating Ideas and Proposal (Lesson 10 &11)	**Component 3:** **Learning Aim B1 Planning** Storyboarding (Lesson 12)	**Component 3:** **Learning Aim B2 Managing the production process** Gantt Charts (Lesson 14)
Cycle 2	W/C 07/12	W/C 14/12	W/C 04/01	W/C 11/01	W/C 18/01	W/C 25/01	W/C 01/02	W/C 08/02	W/C 22/02	W/C 01/03	W/C 08/03	W/C 15/03	W/C 22/03
	Component 3: **Learning Aim B2 Managing the production process** Copyright Law (Lesson 15)	Y11 Mock Examinations **Component 3:** **Learning Aim C1: Review** File Formats (Lesson 17)	Term 3 Y11 Mock Examinations **Component 3:** **Learning Aim C2: Skills** Refining production skills (Lesson	**Component 3:** **Learning Aim C2: Skills** Software Packages (Lesson 21)	Data Input Y11 (20/01) **Component 3:** **Learning Aim C2: Skills** Refining production skills (Lesson 23&24)	**Component 3:** **Learning Aim C3: Refining Content** Experiment with techniques (Lesson 26)	**Component 3:** **Learning Aim C4: Testing and exporting for distribution** Compressing media products (Lesson 28)	**Component 3:** Analyse brief and research (Lesson 30)	Term 4 Data Input 2 (24/02) **Component 3:** Creation of media product (Lesson 31-32)	Data Day (4/3) Planning Day (5/3) **Component 3:** Creation of Media product	Share Results Mock Exam	Mock Exam	**Summative Assessment** Respond to brief (Lesson 33 -35)
	Component 3: **Learning Aim C1 Review** Reflections (Lesson 16)	Y11 Examinations **Component 3:** **Learning Aim C2: Skills** Refining production skills (Lesson 18)	Y11 Examinations **Component 3:** **Learning Aim C2: Skills** Refining production skills (Lesson 19)	**Component 3:** **Learning Aim C2: Skills** Refining production skills (Lesson 18)	**Component 3:** **Learning Aim C3: Refining Content** Combining, Editing and Interactivity workshop (Lesson 25)	**Component 3:** **Learning Aim C4: Testing and Exporting for distribution** Importance of Testing Products (Lesson 27)	Revision **Component 3:** Introduction to Sample Assessment Material (29-30)	Assessment **Component 3:** Creation of media product (Lesson 31-32)	**Component 3:** Creation of media product (Lesson 31-32)	Review **Component 3:** Formative Feedback and Reflection	Mock Exam	Mock Exam	**Summative Assessment** Respond to brief (Lesson 36 -38) Activity 1

Cycle 3	W/C 12/04	W/C 19/04	W/C 26/04	W/C 03/05	W/C 10/05	W/C 17/05	W/C 24/05	W/C 07/06	W/C 14/06	W/C 21/06	W/C 28/06	W/C 05/07	W/C 12/07
	Term 5 **Summative Assessment** Respond to brief (Lesson 33 -35) Activity 1	**Summative Assessment** Respond to brief (Lesson 39 -40) Activity 2	**Summative Assessment** Generate materials for media product (Lesson 41-44)	**Bank Holiday (03/05)** **Summative Assessment** Create media product (Lesson 45-48)	**Summative Assessment** Create media product (Lesson 45-48)	**GCSE Examinations**	**GCSE Examinations** **Term 6**	**GCSE Examinations**	**GCSE Examinations**	**GCSE Examinations**	**Data Input 3 (30/07)**	**Share Results**	**Data Day (13/07)** **Planning Day (14/07)**
	Summative Assessment Respond to brief (Lesson 39-40) Activity 2	**Summative Assessment** Generate materials for media product (Lesson 41-44)	**Summative Assessment** Generate materials for media product (Lesson 41-44)	**Summative Assessment** Create media product (Lesson 45-48)	**Summative Assessment** Create media product (Lesson 45-48)		**Revision**	**Examinations** **Assessment**	**Examinations**	**Examinations**			**Review**

Computer Science Year 10 2021-22

Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	W/C 24/08	W/C 31/08	W/C 07/09	W/C 14/09	W/C 21/09	W/C 28/09	W/C 05/10	W/C 12/10	W/C 02/11	W/C 9/11	W/C 16/11	W/C 23/11	W/C 30/11
	Term 1	Bank Holiday (31/08)	01: Computer Systems Unit 1. Systems Architecture Fetch Execute Cycle continued	01: Computer Systems Unit 1. Systems Architecture Clock Speed	01: Computer Systems Unit 1. Systems Architecture Difference and Purpose	01: Computer Systems Unit 1. Systems Architecture Secondary Storage Optical Magnetic Solid State	01: Computer Systems Unit 1. Systems Architecture Capacity	Assessment	Term 2 Data Input 1 (04/11)	Data Day (12/11) Planning Day (13/11) Unit 2: Wired and Wireless Networks Factors affecting performance of networks	Share Results Unit 2: Wired and Wireless Networks Network Hardware Wireless access points, routers, switches, NIC. Transmission media	Unit 2: Wired and Wireless Networks Network topologies	Unit 2: Wired and Wireless Networks Protocols and Layers Packet Switching
	Student Induction	01: Computer Systems Unit 1. Systems Architecture Fetch Execute Cycle	01: Computer Systems Unit 1. Systems Architecture CPU Performance	01: Computer Systems Unit 1. Systems Architecture Number of cores	01: Computer Systems Unit 1. Systems Architecture Memory RAM and ROM Flash and Virtual	Unit 1. Systems Architecture Secondary Storage Optical Magnetic Solid State	01: Computer Systems Unit 1. Systems Architecture Revision	DIRT Consolidation	Unit 2: Wired and Wireless Networks Types of Networks LAN WAN	Unit 2: Wired and Wireless Networks Client server and peer to peer network	Unit 2: Wired and Wireless Networks Internet DNS, Cloud computing, web servers	Unit 2: Wired and Wireless Networks Network Security Threats to computer systems and networks	Unit 2: Wired and Wireless Networks Consolidation
Cycle 2	W/C 07/12	W/C 14/12	W/C 04/01	W/C 11/01	W/C 18/01	W/C 25/01	W/C 01/02	W/C 08/02	W/C 22/02	W/C 01/03	W/C 08/03	W/C 15/03	W/C 22/03
	Unit 6: Programming Fundamentals Introduction to programming	Y11 Mock Examinations Unit 6: Programming Fundamentals Variables Constants Operators	Term 3 Y11 Mock Examinations Unit 6: Programming Fundamentals Basic programing constructs selection	Unit 6: Programming Fundamentals Arithmetic operators and Boolean operators	Data Input Y11 (20/01) Unit 6: Programming Fundamentals Revision and retrieval practice assessment	Unit 6: Programming Fundamentals SQL to search for data	Unit 6: Programming Fundamentals Random number generation Structured codes	Unit 6: Programming Fundamentals Syntax and logic errors Testing	Term 4 Data Input 2 (24/02) Unit 6: Programming Fundamentals Languages High-level and low-level	Data Day (4/3) Planning Day (5/3)	Share Results		
	Unit 6: Programming Fundamentals Variables Constants Inputs and Outputs	Y11 Examinations Unit 6: Programming Fundamentals Basic programing constructs sequence	Y11 Examinations Unit 6: Programming Fundamentals Basic programing constructs iteration	Unit 6: Programming Fundamentals Data types	Unit 6: Programming Fundamentals String manipulation, file handling operators	Unit 6: Programming Fundamentals Arrays	Revision Unit 6: Programming Fundamentals Boolean logic Truth tables	Assessment	Unit 6: Programming Fundamentals IDE Editors, diagnostics, translators	Review	Unit 8: Representing data Units of Data	Unit 8: Representing data Data Storage Binary to Denary Denary to binary	Unit 8: Representing data Hexadecimal to Binary Binary to Hexadecimal

	W/C 12/04	W/C 19/04	W/C 26/04	W/C 03/05	W/C 10/05	W/C 17/05	W/C 24/05	W/C 07/06	W/C 14/06	W/C 21/06	W/C 28/06	W/C 05/07	W/C 12/07
Cycle 3	**Term 5**			**Bank Holiday (03/05)**		**GCSE Examinations**	**GCSE Examinations** **Term 6**	**GCSE Examinations**	**GCSE Examinations**	**GCSE Examinations**	**Data Input 3 (30/07)**	**Share Results**	**Data Day (13/07)** **Planning Day (14/07)**
	Unit 8: Representing data Binary Shifts Binary Addition	**Unit 8: Representing data** Character Sets ASCII VS Unicode	**Unit 8: Representing data** Images Metadata	**Unit 8: Representing data** Sound and Compression	**Unit 7: Computational Thinking** Principles of computational thinking	**Unit 7: Computational Thinking** Creating algorithms and trace tables	**Revision**	**Examinations** **Assessment**	**Examinations**	**Examinations**	**Unit 7: Computational Thinking** Psuedocode Flowcharts	**Unit 7: Computational Thinking** Psuedocode Flowcharts	**Review**